1a. 7.14 rad/s2

b. 42.86 rads

c. 15 m

2 at=8.91 m/s2

alpha = 89.1 rad/s2

Tension = 8.91 N

3. a = (5/7)g sin(theta)

4. v = 5.44 m/s

5. F = -2.57E22 N

6. L = 7.04E33 kgm2/s

7. a) 0.4 kgm2/s

b) 2 rad/s

8C 9C

10. a) 480 rad/s

b) 56 rad/s2

c) -0.267 rad

d) NO

11. a) Sphere - lowest I

b) all have same

c)hoop 2.26 m/s

disk 2.6 m/s

sphere 2.7 m/s

12. a) 1:3

b) 1:9

13. a = -2.23 m/s2